Freeform Search

D a	tabase:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database UPO Abstracts Database Derwent World Patents Index UBM Technical Disclosure Bulletins		
Te	rm:	((single\$ near2 vis\$) with sens\$)		
Dis	splay:	Documents in <u>Display Format</u> : TI Starting with Numbe	r <u>1</u>	
		○ Hit List Hit Count ○ Side by Side ○ Image		
		Search Clear Interrupt		
		Search History		
DATE: Set	Monda	y, October 22, 2007 Purge Queries Printable Copy Create Case		<u>Set</u>
Name side by side	Query		<u>Hit</u> Count	Name result set
DB= OP=OI		SPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;		
		near2 vis\$) with sens\$)	6	<u>L35</u>
L34	(single\$	adj vis\$ adj2 sens\$)	0	<u>L34</u>
<u>L33</u>	(driv\$ or	passenger\$ or occupant\$) and(single\$ adj vis\$ adj2 sens\$)	0	<u>L33</u>
<u>L32</u>	(driv\$ or	passenger\$ or occupant\$) same(single\$ adj vis\$ adj2 sens\$)	0	<u>L32</u>
<u>L31</u>		vith (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$)) gle\$ with vis\$ with sens\$)	4	<u>L31</u>
<u>L30</u>	``	vith (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$)) gle\$ adj vis\$ adj sens\$)	0	<u>L30</u>
<u>L29</u>		with (position\$ or coordinat\$)) with (driv\$ or passenger or occupant\$)) gle\$ adj vis\$ adj sens\$)	0	<u>L29</u>
<u>L28</u>	L27 and	(single\$ adj vis\$ adj sens\$)	0	<u>L28</u>
<u>L27</u>	123 or 124	4 or 125 or 126	39	<u>L27</u>
DB=	PGPB, U.	SPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
		3 5642238 6037860 6580973 6499025 6492935 5983161 4713 6278918 6151065 6405132 6222447 6487481 4035764		

<u>L26</u>	3964302 6498620 20040145457 5646612 6587760 5091726 6198998 6411202 5699448 5475494)![PN]	24	<u>L26</u>
<u>L25</u>	("20050137774" "20050017857" "20030179084" "20050073396" "4307374" "6862537" "7158015" "6958683")[PN]	8	<u>L25</u>
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<u>L20</u>	L19 not L15	26	<u>L20</u>
<u>L19</u>	L18 and 701/\$.ccls.	26	<u>L19</u>
<u>L18</u>	L17 and safe\$.clm.	111	<u>L18</u>
<u>L17</u>	L14 and ((sens\$ with (position\$ or coordinat\$)) with (driv\$ or passenger or occupant\$))	944	<u>L17</u>
<u>L16</u>	L1 and ((sens\$ with (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$))	1521	<u>L16</u>
L15	L14 and (single\$ with (vision\$ or visual\$) with sens\$)	8	L15
L14	L1 or L2	26501	<u>L14</u>
L13	L3 and (single\$ with (vision\$ or visual\$) with sens\$)	. 0	<u>L13</u>
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<u>L11</u>	L5 and cruis\$	1	<u>L11</u>
L10	L5 and (camera\$ same ((sens\$ with coordinat\$) same referenc\$))	0	<u>L10</u>
L9	L5 and camera\$	1	<u>L9</u>
L8	L5 and ((sens\$ with coordinat\$) same referenc\$)	1	<u>L8</u>
L7	L5 and L3	0	<u>L7</u>
<u>L6</u>	L5 and L4	0	<u>L6</u>
L5	20020026274	1	<u>L5</u>
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<u>L3</u>	L1 and ((sens\$ with coordinat\$) same referenc\$)	25	<u>L3</u>
<u>L2</u>	sensor\$.clm. and (vehicle or automobile or car\$).clm. and control\$.clm. and @ad<=20031222	20886	<u>L2</u>

END OF SEARCH HISTORY



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- Combine search queries using AND, OR, or NOT
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Search Query Display

Mon, 22 Oct 2007, 9:58:29 AM EST

10/709569



Recent Search Queries

((sens* <sentence> (position* <or> coordinat*)) <sentence> (driv* <or> passenger* <or> occupant*)) <and> (single* <u>#1</u> <sentence> vis* <sentence> sens*) <in> pdfdata

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» Key		Display Format: O Citation O Citation & Abstract
IEEE JNL	IEEE Journal or Magazine	view selected items Select All Deselect All
IET JNL	IET Journal or Magazine	<u> </u>
IEEE CNF	IEEE Conference Proceeding	1. Image processing and analysis in multisensory systems Ikonomopoulos, A.; Ghani, N.; Doemens, G.; Kutzer, E.; Roth, N.;
IET CNF	IET Conference Proceeding	Circuits and Systems, IEEE Transactions on Volume 34, Issue 11, Nov 1987 Page(s):1417 - 1431
IEEE STD	IEEE Standard	Summary: An overview of trends on image processing and analysis in visual a sensors introduces the presentation of two multisensory systems in industrial a weakness of computer vision to solve object perception and localization iss
		AbstractPlus Full Text: PDF(2800 KB) IEEE JNL Rights and Permissions
	·	2. Real-time part position sensing Gordon, S.J.; Seering, W.P.; Pattern Analysis and Machine Intelligence, IEEE Transactions on Volume 10, Issue 3, May 1988 Page(s):374 - 386 Digital Object Identifier 10.1109/34.3901 Summary: A light-stripe vision system is used to measure the location of polyh parts from a single frame of video camera output. The geometric conditions whe location of the feature when the light plane intersects three of the featur
		AbstractPlus Full Text: PDF(1068 KB) IEEE JNL Rights and Permissions
		3. Multisensor integration and fusion in intelligent systems Luo, R.C.; Kay, M.G.; Systems, Man and Cybernetics, IEEE Transactions on Volume 19, Issue 5, SeptOct. 1989 Page(s):901 - 931 Digital Object Identifier 10.1109/21.44007 Summary: The issues involved in integrating multiple sensors into the operation presented in the context of the type of information these sensors can uniquely is provided of the variety of approaches to the problem of multise AbstractPlus Full Text: PDF(3184 KB) IEEE JNL
		Rights and Permissions
•		4. Neuromorphic analog VLSI sensor for visual tracking: circuits and applic

Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactio

Summary: This paper presents a one-dimensional visual sensor, implemented

Circuits and Systems II: Express Briefs, IEEE Transactions on] Volume 46, Issue 11, Nov. 1999 Page(s):1337 - 1347

Digital Object Identifier 10.1109/82.803473

chip using analog neuromorphic circuits, for selectively detecting and tracking t feature with the highest spatial contrast present in the visual scen.....

AbstractPlus | References | Full Text: PDF(784 KB) | IEEE JNL Rights and Permissions

5. Protein-based photocell for high-speed motion detection П Wei Wei Wang; Knopf, G.K.; Bassi, A.S.; Control Applications, 2005. CCA 2005. Proceedings of 2005 IEEE Conference 28-31 Aug. 2005 Page(s):731 - 736 Digital Object Identifier 10.1109/CCA.2005.1507215 Summary: Not available

> AbstractPlus | Full Text: PDF(257 KB) | IEEE CNF Rights and Permissions

6. Development of a Patrol Robot П

Zeng Dehuai; Xie Cunxi; Industrial Electronics, 2005. ISIE 2005. Proceedings of the IEEE International S Volume 4, June 20-23, 2005 Page(s):1757 - 1762

Summary: Not available.....

AbstractPlus | Full Text: PDF(242 KB) IEEE CNF Rights and Permissions

7. High performance sensor fusion architecture for vision-based occupant d Owechko, Y.; Srinivasa, N.; Medasani, S.; Boscolo, R.;

Intelligent Transportation Systems, 2003. Proceedings. 2003 IEEE Volume 2, 12-15 Oct. 2003 Page(s):1128 - 1133 vol.2

Summary: We describe a fast and reliable vision system for detecting and reco occupants in automobiles. The main advantage of our system is its high accura of fusion module, which combines the results of multiple classifiers operating ...

AbstractPlus | Full Text: PDF(435 KB) IEEE CNF Rights and Permissions

8. A neural network based torque controller for collision-free navigation of m П Yang, S.X.; Tiemin Hu; Xiaobu Yuan; Liu, P.X.; Max Meng;

Robotics and Automation, 2003. Proceedings. ICRA '03. IEEE International Co Volume 1, 14-19 Sept. 2003 Page(s):13 - 18 vol.1

Summary: In this paper, a neural network based torque controller is proposed collision-free navigation of nonholonomic mobile robots. A torque resulted from incorporated in the control design based on the artificial potential te.....

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Terms	Documents	
L27 and (single\$ adj vis\$ adj sens\$)	0	

US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins

Search:

Database:

10/707569 Refine Search Recall Text Interrupt Clear

Search History

Printable Copy Create Case DATE: Monday, October 22, 2007 **Purge Queries**

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123 or 124 or 125 or 126	39
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<u>L21</u>	L20 and (single\$ adj vision\$ adj sens\$)	0	<u>L21</u>
<u>L20</u>	L19 not L15	26	L20
<u>L19</u>	L18 and 701/\$.ccls.	26	<u>L19</u>
<u>L18</u>	L17 and safe\$.clm.	111	L18
<u>L17</u>	L14 and ((sens\$ with (position\$ or coordinat\$)) with (driv\$ or passenger or occupant\$))	944	<u>L17</u>
<u>L16</u>	L1 and ((sens\$ with (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$))	1521	<u>L16</u>
<u>L15</u>	L14 and (single\$ with (vision\$ or visual\$) with sens\$)	8	<u>L15</u>
<u>L14</u>	L1 or L2	26501	<u>L14</u>
<u>L13</u>	L3 and (single\$ with (vision\$ or visual\$) with sens\$)	0	<u>L13</u>
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<u>L11</u>	L5 and cruis\$	·1	<u>L11</u>
<u>L10</u>	L5 and (camera\$ same ((sens\$ with coordinat\$) same referenc\$))	0	<u>L10</u>
<u>L9</u>	L5 and camera\$	1	<u>L9</u>
<u>L8</u>	L5 and ((sens\$ with coordinat\$) same referenc\$)	_ 1	<u>L8</u>
<u>L7</u>	L5 and L3	0	<u>L7</u>
<u>L6</u>	L5 and L4	0	<u>L6</u>
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OP=C	DR		
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<u>L3</u>	L1 and ((sens\$ with coordinat\$) same referenc\$)	25	<u>L3</u>
<u>L2</u>	sensor\$.clm. and (vehicle or automobile or car\$).clm. and control\$.clm. and @ad<=20031222	20886	<u>L2</u>
<u>L1</u>	sensor\$.clm. and (vehicle or automobile or car\$).clm. and control\$ and @ad<=20031222	26501	<u>L1</u>

END OF SEARCH HISTORY

First Hit Fwd Refs

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N

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Next Doc

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Generate Collection

Print

L31: Entry 1 of 4

File: USPT

May 22, 1990

US-PAT-NO: 4926682

DOCUMENT-IDENTIFIER: US 4926682 A

TITLE: Viscosity sensor

DATE-ISSUED: May 22, 1990

INVENTOR-INFORMATION:

CITY

STATE ZIP CODE

COUNTRY

Holm-Kennedy; James W.

Honolulu

ΗI

McArthur; Scot P.

Honolulu

ASSIGNEE-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY TYPE CODE

The Research Corporation of the University of Hawaii

Honolulu HI

02

APPL-NO: 07/201887 [PALM] DATE FILED: June 3, 1988

INT-CL-ISSUED: [05] G01N 11/00

INT-CL-CURRENT:

TYPE IPC

DATE

CIPP G01 N 11/00 20060101

US-CL-ISSUED: 73/54 US-CL-CURRENT: <u>73/54.01</u>

FIELD-OF-CLASSIFICATION-SEARCH: 73/54, 324/61R, 361/280, 361/281

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

ISSUE-DATE PAT-NO

PATENTEE-NAME

US-CL

2772393

November 1956

Davis

331/65

3278919

October 1966

Fleming

307/308

3500366 March 1970 Chesney et al. 331/65

First Hit Fwd Refs

Previous Doc Next Doc Go to Doc#

Generate Collection Print

L31: Entry 2 of 4

File: USPT

Jan 31, 1984

US-PAT-NO: 4429217

DOCUMENT-IDENTIFIER: US 4429217 A

TITLE: Verifying insertion system and apparatus

DATE-ISSUED: January 31, 1984

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hill; James E. Prospect Heights IL

Dahlstrom; Baesley I. Des Plaines IL

Fisher; Robert D. Melrose Park IL

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Dynetics Engineering Corp. Wheeling IL 02

APPL-NO: 06/048767 [PALM]
DATE FILED: June 15, 1979

PARENT-CASE:

RELATED APPLICATION This application is a division of copending application Ser. No. 832,001 filed Sept. 9, 1977, now U.S. Pat. No. 4,194,685, issued Mar. 25, 1980, which in turn, is a continuation-in-part of application Ser. No. 768,446 filed Feb. 14, 1977 entitled Credit Card Carriers, Apparatus and Methods, which in turn is a required divisional of application Ser. No. 615,112 filed Sept. 19, 1975 entitled Credit Card Carriers and Methods of Manufacture, now U.S. Pat. No. 4,034,210 issued July 5, 1977. The embossed character reader head employed in the apparatus of these applications is the subject of copending application Ser. No. 723,215 filed Sept. 14, 1976 entitled Embossed Character Reader and assigned to same assignee of the instant and other applications.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

CA 261445 September 17, 1976 GB 38812/76 September 20, 1976

INT-CL-ISSUED: [03] G06K 5/00, G06K 7/08, B65B 11/48, B65H 39/00

INT-CL-CURRENT:

TYPE IPC DATE

CIPS <u>B43 M</u> <u>3/00</u> 20060101 CIPS <u>B43 M</u> <u>3/04</u> 20060101

US-CL-ISSUED: 235/380; 53/206, 235/449, 270/52 US-CL-CURRENT: 235/380; 235/449, 270/52.13, 53/206

FIELD-OF-CLASSIFICATION-SEARCH: 53/31, 53/206, 53/266, 23/253R, 235/449, 235/454,

235/491, 360/53, 270/52

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
	3371466	March 1968	Klopfenstein	53/206
	3484097	December 1969	Jory	270/52
	3508702	April 1970	Kaiser	
	3704015	November 1972	Holovka	
	3800124	March 1974	Walsh	235/449
	3804226	April 1974	Ellis	
**	3819173	June 1974	Anderson	
8000 3011	3848112	November 1974	Weichsel baum	235/449
	3870867	March 1975	Hamisch	235/491
	3891492	June 1975	Watson	235/454
	3896606	July 1975	Utsumi	53/266
	3899165	August 1975	Abram	
	3899381	August 1975	O'Brien	
	3909203	September 1975	Young	`23/253R
	3941308	March 1976	DiGirolomo	53/31
	3951251	April 1976	Zaccagnino	
	3961781	June 1976	Funk	
	3965644	June 1976	Stocker	
	3982102	September 1976	Cidade	
	3999700	December 1976	Chalmers	
	4003183	January 1977	Helm	53/31
	4027141	May 1977	Dubbe	360/53
	4091268	May 1978	Jarleton	1

ART-UNIT: 235

PRIMARY-EXAMINER: Kilgore; Robert M.

ATTY-AGENT-FIRM: Dulin; Jacques M.

ABSTRACT:

Apparatus and method of verification of credit cards, including sensing information thereon and comparing said information with information on a specially designed pre-printed carrier, followed by insertion of one or more cards in the matching carrier as required, folding and stacking card-inserted carriers in a manner ready for subsequent insertion into mailing envelopes. Sensing, input, comparison logic, and timed command circuitry for coordination of operation includes a pause mode of card advance and may optionally include a multiple card search mode to find matching cards when card sequence is improper.

26 Claims, 43 Drawing figures

Previous Doc Next Doc Go to Doc#

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Your wildcard search against 10000 terms has yielded the results below.

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The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Terms	Documents
(driv\$ or passenger\$ or occupant\$) and(single\$ adj vis\$ adj2 sens\$)	0

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US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

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Interrupt

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Search History

DATE: Monday, October 22, 2007 Purge Queries Printable Copy Create Case

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(driv\$ or passenger\$ or occupant\$) same(single\$ adj vis\$ adj2 sens\$)	0
((sens\$ with (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$)) and (single\$ with vis\$ with sens\$)	4
((sens\$ with (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$)) and (single\$ adj vis\$ adj sens\$)	0
((sens\$ with (position\$ or coordinat\$)) with (driv\$ or passenger or occupant\$)) and (single\$ adj vis\$ adj sens\$)	0
L27 and (single\$ adj vis\$ adj sens\$)	. 0
123 or 124 or 125 or 126	39

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<u>L21</u>	L20 and (single\$ adj vision\$ adj sens\$)	0	<u>L21</u>
<u>L20</u>	L19 not L15	26	<u>L20</u>
<u>L19</u>	L18 and 701/\$.ccls.	26	<u>L19</u>
L18	L17 and safe\$.clm.	111	<u>L18</u>
<u>L17</u>	L14 and ((sens\$ with (position\$ or coordinat\$)) with (driv\$ or passenger or occupant\$))	944	<u>L17</u>
<u>L16</u>	L1 and ((sens\$ with (position\$ or coordinat\$)) same (driv\$ or passenger or occupant\$))	1521	<u>L16</u>
L15	L14 and (single\$ with (vision\$ or visual\$) with sens\$)	8	<u>L15</u>
	L1 or L2	26501	<u>L14</u>
	L3 and (single\$ with (vision\$ or visual\$) with sens\$)	0	L13
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L11	L5 and cruis\$	1	L11
L10	L5 and (camera\$ same ((sens\$ with coordinat\$) same referenc\$))	0	L10
<u>L10</u>	L5 and camera\$	1	L9
L8	L5 and ((sens\$ with coordinat\$) same referenc\$)	1	<u>L8</u>
<u>L3</u>	L5 and L3	0	<u>L7</u>
	L5 and L4	0	<u>L6</u>
<u>L6</u>	20020026274	1	<u>L5</u>
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OP=0	·		
L4	L3 and (collid\$ or collision\$)	7	<u>L4</u>
<u></u>	L1 and ((sens\$ with coordinat\$) same referenc\$)	25	<u>L3</u>
<u>L2</u>	sensor\$.clm. and (vehicle or automobile or car\$).clm. and control\$.clm. and @ad<=20031222	20886	<u>L2</u>
<u>L1</u>	sensor\$.clm. and (vehicle or automobile or car\$).clm. and control\$ and @ad<=20031222	26501	<u>L1</u>

DETECTING AND MINIMIZING POTENTIAL IMPACTS FROM VALVE HALL FIRES

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Abstract - This paper discusses methods for detecting and minimizing potential impacts from valve hall fires. Comparisons are made between commercially available valve hall fire detection and suppression systems. The fire detection and suppression system installed at the Sandy Pond HVDC Converter Terminal is described.

<u>Keywords</u> - Thyristor valve, HVDC, fire, safety, quadravalve wall bushing, oil fire, availability, unavailability

INTRODUCTION

Modern HVDC systems have very stringent reliability and availability requirements, usually with severe economic penalties to the manufacturer and the owner if high levels of availability and reliability are not maintained. A failure of any equipment located in the valve hall which results in a fire typically requires an extended outage to repair or replace the failed component and also decontaminate other equipment located in the valve hall. The duration of the outage is usually a function of the severity of actual equipment failure and the time needed to decontaminate other equipment. In some cases the decontamination time may exceed the equipment repair or replacement time.

A recent informal survey of HVDC systems throughout the world identified nine instances of equipment failure which initiated a fire inside the valve hall. Of these nine equipment failures two were related to wall bushing failures and seven were related to valve component failures or installation errors. Recently there have been two catastrophic fires (Itaipu and Rihand) in valve halls which have seriously impacted availability of the associated HVDC systems.

There are many ways in which valve component failures may result in initiation of a fire. Component and component connection failure within a valve is of major concern because the power through or across the defect is equivalent to that from a near constant current source. To date

91 SM 369-9 PWRD A paper recommended and approved by the IEEE Substations Committee of the IEEE Power Engineering Society for presentation at the IEEE/PES 1991 Summer Meeting, San Diego, California, July 28 -August 1, 1991. Manuscript submitted February 1, 1991; made available for printing May 17, 1991. this type of partial failure within a single valve has defied detection by power circuit means external to the valve. The defect or fault may transform itself into an arc which may grow and become destructive to surrounding components due to heat radiation, magnetic distortion of the arc, and ignition of adjacent flammable materials. Contaminated and wet insulation due to cooling system leaks and roof leaks, foreign materials, high resistivity connections, and overloads due to defective relay circuits are other types of valve component failures which may initiate a fire and may not be immediately detected.

Independent of the cooling medium which the valve utilizes, there are a variety of ways valve component failures may transform themselves into arcing faults which may go undetected for an extended period of time. Therefore it is important to understand the material properties of components throughout the valve. A total of over 60,000 pounds of flammable materials are present in some bipolar HVDC converter terminal valve halls. The flammability of these materials is of major importance when trying to minimize the impact of a valve fire. Tests are typically used to quantify the hazard of flammable plastics: A plastic may rate "self-extinguishing" by one test, yet ignite and burn rapidly by another test. For example, a material tested in the horizontal a material tested in the horizontal position, ignited at one end by a bunsen burner, may rate "self-extinguishing". The same material, arranged in a vertical position, ignited with a bunsen burner at the bottom may result in ignition and rapid flame spread even after the original heat source is removed. Test methods are available which allow heat release rate properties to be quantified. Mutual Research Corporation The Factory (FMRC) Small Scale Flammability Apparatus and Cone Calorimeter are examples of such tests (1)

The Sandy Pond Converter Terminal thyristor valves contain large quantities of flammable plastics, thus it was necessary to investigate various methods for detecting and minimizing impacts of valve hall fires and install a more sensitive fire detection system and a fire suppression system.

DETECTING VALVE HALL FIRES

If the valve hall fire involves a large release of insulating oil, as in a wall bushing failure, traditional ceiling mounted and return air duct smoke detectors can provide adequate fire detection. In addition, many of the electrical conditions associated with such a failure would be quickly detected by protective relaying and